WHAT IS CLAIMED IS:

- 1 1. A method for detecting navigation bars in a document,
- 2 the method comprising:
- 3 a) segmenting the document into components; and
- 4 b) for each of the components, determining whether or
- 5 not the component is anchor-heavy, wherein if the
- 6 component is anchor-heavy, it is determined to be a
- 7 navigation bar.
- 1 2. The method of claim 1 wherein the act of determining
- 2 whether or not the component is anchor-heavy is based on a
- 3 number of anchors in the component and a number of
- 4 non-anchor words in the component.
- 1 3. The method of claim 1 wherein the act of determining
- 2 whether or not the component is anchor-heavy includes
- i) determining a number of anchors in the
- 4 component,
- 5 ii) determining a number of non-anchor words in
- 6 the component, and
- 7 iii) if the number of anchors is greater than a
- 8 predetermined threshold and if the number of
- 9 anchors is greater than the number of non-anchor
- 10 words, then determining that the component is
- 11 anchor-heavy.
- 1 4. The method of claim 3 wherein the predetermined
- 2 threshold is about three.
- 1 5. The method of claim 3 wherein the predetermined
- 2 threshold is three.

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- 1 The method of claim 1 wherein the act of determining whether or not the component is anchor-heavy includes 2 3 determining a first count to be a number of 4 anchors in the component, 5 determining a second count to be a number of 6 non-anchor words in the component, 7 iii) incrementing the second count by the number 8 of words in an anchor having more words than a 9 predetermined threshold to determine a non-anchor 10 word count, and 11 if the first count is greater than a second 12
 - predetermined threshold and if the first count is greater than the non-anchor word count, then determining that the component is anchor-heavy.
- 1 7. The method of claim 6 wherein the predetermined 2 threshold is about four.
- 1 8. The method of claim 6 wherein the predetermined
- 2 threshold is four.
- 1 9. The method of claim 1 wherein the act of segmenting the
- 2 document into components includes generating a parse tree
- 3 based on the document, wherein a first node corresponding
- 4 to a first component is a child of a second node of a
- 5 second component if the first component is included in the
- 6 second component.
- 1 10. The method of claim 9 wherein the act of determining
- 2 whether or not the component is anchor-heavy is based on
- 3 (i) a number of anchors in a node corresponding to the

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- 4 component and all descendant nodes of the node, and (ii) a
- 5 number of non-anchor words in the node corresponding to the
- 6 component and all the descendant nodes of the node.
- 1 11. The method of claim 9 wherein the act of determining
- 2 whether or not the component is anchor-heavy includes
- i) determining a number of anchors in a node
- 4 corresponding to the component and all descendant
- 5 nodes of the node,
- 6 ii) determining a number of non-anchor words in
- 7 the node corresponding to the component and all
- 8 the descendant nodes of the node, and
- 9 iii) if the number of anchors is greater than a
- 10 predetermined threshold and if the number of
- anchors is greater than the number of non-anchor
- words, then determining that the component is
- anchor-heavy.
- 1 12. The method of claim 11 wherein the predetermined
- 2 threshold is about three.
- 1 13. The method of claim 11 wherein the predetermined
- 2 threshold is three.
- 1 14. The method of claim 9 wherein the act of determining
- 2 whether or not the component is anchor-heavy includes
- i) determining a first count to be a number of
- 4 anchors in a node corresponding to the component
- 5 and all descendant nodes of the node,
- 6 ii) determining a second count to be a number of
- 7 non-anchor words in a node corresponding to the
- 8 component and all descendant nodes of the node,

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- 9 iii) incrementing the second count by the number of words in an anchor having more words than a 10 11 predetermined threshold to determine a non-anchor 12 word count, and 13 if the first count is greater than a second 14 predetermined threshold and if the first count is 15 greater than the non-anchor word count, then 16 determining that the component is anchor-heavy.
- 1 15. A method for detecting objectionable navigation bars
 2 in a document, the method comprising:
- 3 a) segmenting the document into components;
- b) for each of the components, determining whether or
- 5 not the component is a navigation bar; and
- 6 c) for each of the components that is determined to
- 7 be a navigation bar, determining whether or not the
- 8 navigation bar is disqualified from being classified
- 9 as an objectionable navigation bar.
- 1 16. The method of claim 15 wherein the act of determining,
- 2 for each of the components, whether or not the component is
- 3 a navigation bar is based on a number of anchors in the
- 4 component and a number of non-anchor words in the
- 5 component.
- 1 17. The method of claim 15 wherein the act of determining
- 2 whether or not the component is a navigation bar includes
- i) determining a number of anchors in the
- 4 component,
- 5 ii) determining a number of non-anchor words in
- 6 the component, and



7	iii) if the number of anchors is greater than a
8	predetermined threshold and if the number of
9	anchors is greater than the number of non-anchor
10	words, then determining that the component is a
11	navigation bar.

- 1 18. The method of claim 15 wherein the act, for each of
- 2 the components that is determined to be a navigation bar,
- 3 of determining whether or not the navigation bar is
- 4 disqualified from being classified as an objectionable
- 5 navigation bar includes determining whether a
- 6 disqualification condition, selected from a group of
- 7 disqualification conditions consisting of (a) if the
- 8 component has less than a predetermined number of anchors,
- 9 (b) if the component has more than a predetermined
- 10 percentage of words of the document, and (c) if the
- 11 component is an element of a disqualified component and
- 12 that disqualified component has only navigation bar
- 13 elements, exists.
- 1 19. The method of claim 16 wherein the act, for each of
- 2 the components that is determined to be a navigation bar,
- 3 of determining whether or not the navigation bar is
- 4 disqualified from being classified as an objectionable
- 5 navigation bar includes determining whether a
- 6 disqualification condition, selected from a group of
- 7 disqualification conditions consisting of (a) if the
- 8 component has less than a predetermined number of anchors,
- 9 (b) if the component has more than a predetermined
- 10 percentage of words of the document, and (c) if the
- 11 component is an element of a disqualified component and

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- 12 that disqualified component has only navigation bar
- 13 elements, exists.
- 1 20. The method of claim 17 wherein the act, for each of
- 2 the components that is determined to be a navigation bar,
- 3 of determining whether or not the navigation bar is
- 4 disqualified from being classified as an objectionable
- 5 navigation bar includes determining whether a
- 6 disqualification condition, selected from a group of
- 7 disqualification conditions consisting of (a) if the
- 8 component has less than a predetermined number of anchors,
- 9 (b) if the component has more than a predetermined
- 10 percentage of words of the document, and (c) if the
- 11 component is an element of a disqualified component and
- 12 that disqualified component has only navigation bar
- 13 elements, exists.
- 1 21. A method for detecting objectionable navigation bars
- 2 in a document, the method comprising:
- a) segmenting the document into components by
- 4 generating a parse tree based on the document, wherein
- a first node corresponding to a first component is a
- 6 child of a second node of a second component if the
- first component is included in the second component;
- b) for each of the nodes of the parse tree,
- 9 determining whether or not the node corresponds to a
- navigation bar component; and
- 11 c) for each of the nodes that is determined to
- 12 correspond to a navigation bar, determining whether or
- not the navigation bar is disqualified from being
- 14 classified as an objectionable navigation bar.



- 1 22. The method of claim 21 wherein the act, for each of
- 2 the nodes that is determined to correspond to a navigation
- 3 bar, of determining whether or not the navigation bar is
- 4 disqualified from being classified as an objectionable
- 5 navigation bar includes determining whether a
- 6 disqualification condition, selected from a group of
- 7 disqualification conditions consisting of (a) if the
- 8 component associated with the node has less than a
- 9 predetermined number of anchors, (b) if the component
- 10 associated with the node has more than a predetermined
- 11 percentage of words of the document, and (c) if the node
- 12 has a disqualified ancestor node and that all descendant
- 13 nodes of the disqualified ancestor node are associated with
- 14 navigation bar components, exists.
- 1 23. A machine-readable medium having machine executable
- 2 instructions thereon, wherein when the machine executable
- 3 instructions are executed on a machine, the machine:
- 4 a) segments the document into components; and
- 5 b) for each of the components, determines whether or
- 6 not the component is anchor-heavy, wherein if the
- 7 component is anchor-heavy, it is determined to be a
- 8 navigation bar.
- 1 24. A machine-readable medium having machine executable
- 2 instructions thereon, wherein when the machine executable
- 3 instructions are executed on a machine, the machine:
- 4 a) segments the document into components;
- 5 b) for each of the components, determines whether or
- 6 not the component is a navigation bar; and
- 7 c) for each of the components that is determined to
- 8 be a navigation bar, determines whether or not the

- navigation bar is disqualified from being classified as an objectionable navigation bar.
- 1 25. An apparatus for detecting navigation bars in a
- 2 document, the apparatus comprising:
- 3 a) means for segmenting the document into components;
- 4 and
- 5 b) means for determining, for each of the components,
- 6 whether or not the component is anchor-heavy, wherein
- 7 if the component is anchor-heavy, it is determined to
- 8 be a navigation bar.
- 1 26. An apparatus for detecting objectionable navigation
- 2 bars in a document, the apparatus comprising:
- 3 a) means for segmenting the document into components;
- 4 b) means for determining, for each of the components,
- 5 whether or not the component is a navigation bar; and
- 6 c) means for determining, for each of the components
- 7 that is determined to be a navigation bar, whether or
- 8 not the navigation bar is disqualified from being
- 9 classified as an objectionable navigation bar.